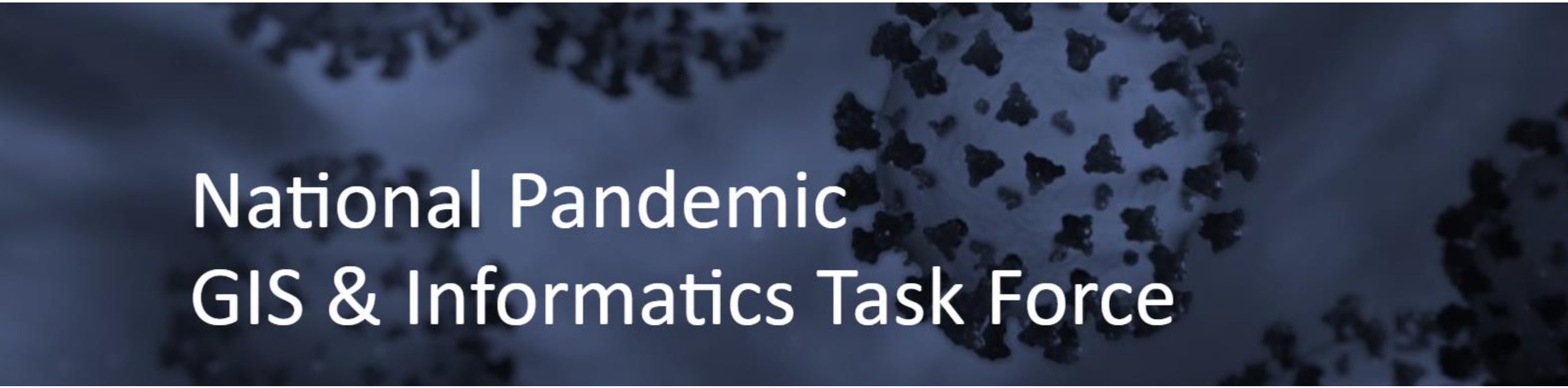


Briefing for the National Geospatial Advisory Council

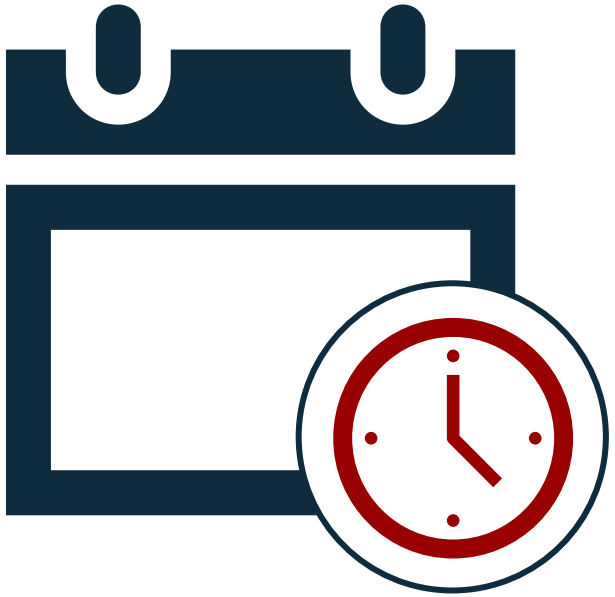
October 12, 2021

Agenda

01 Overview of the Pandemic GIS & Informatics Task Force

02 Task Force Roadmap and Priority Requirements

03 Discussion on Opportunities for Collaboration with NGAC and Federal Agencies



Overview of the Pandemic GIS & Informatics Task Force

Overview

- Formed in May 2020 with the goal ***to increase pandemic preparedness and unity of effort by enabling effective information sharing and use of location-enabled technology for informing critical decision making.***

Founding Organizations

NAPSG Foundation

NSGIC
National States Geographic Information Council

URISA
Fostering Excellence in GIS
www.URISA.org

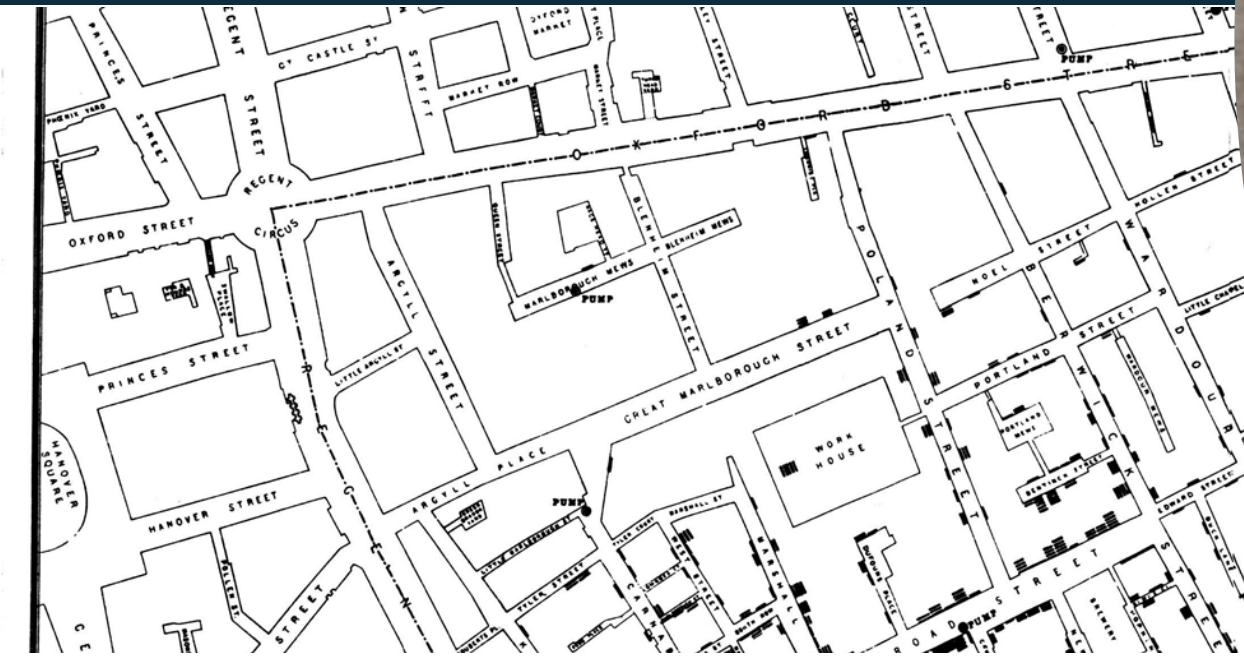
Coordinating Organizations

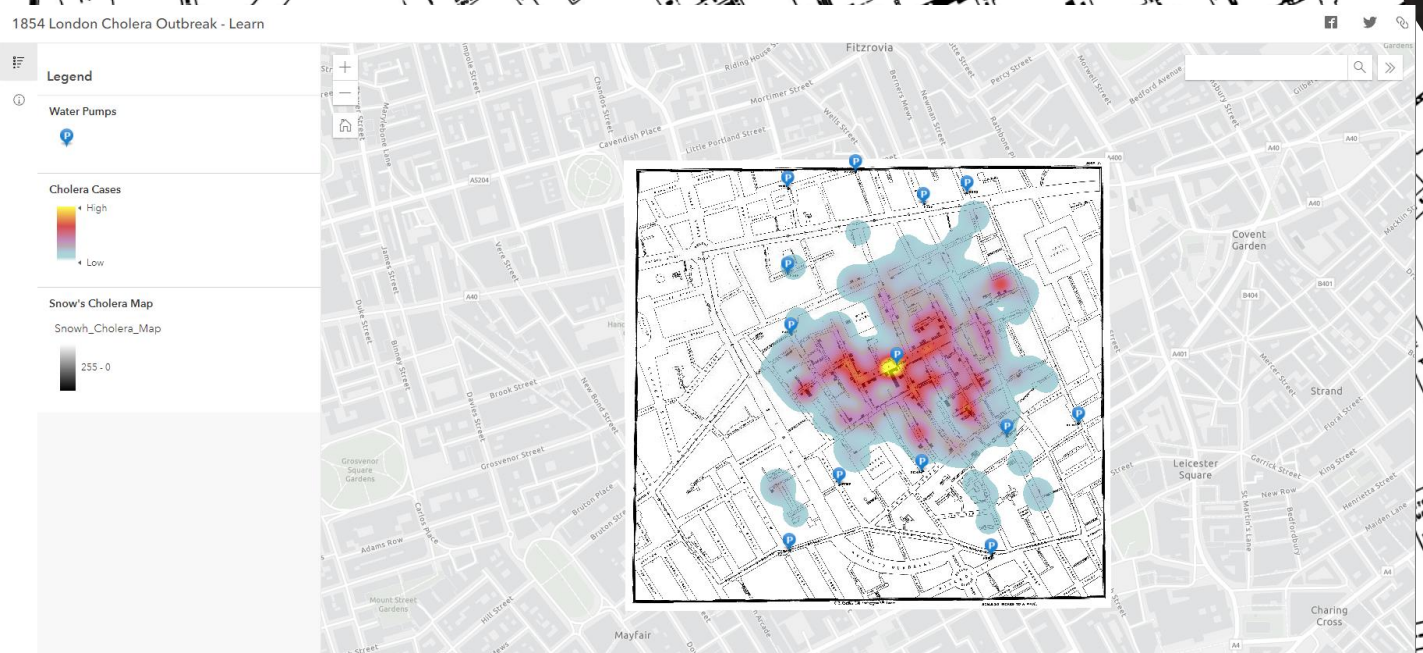
astho™

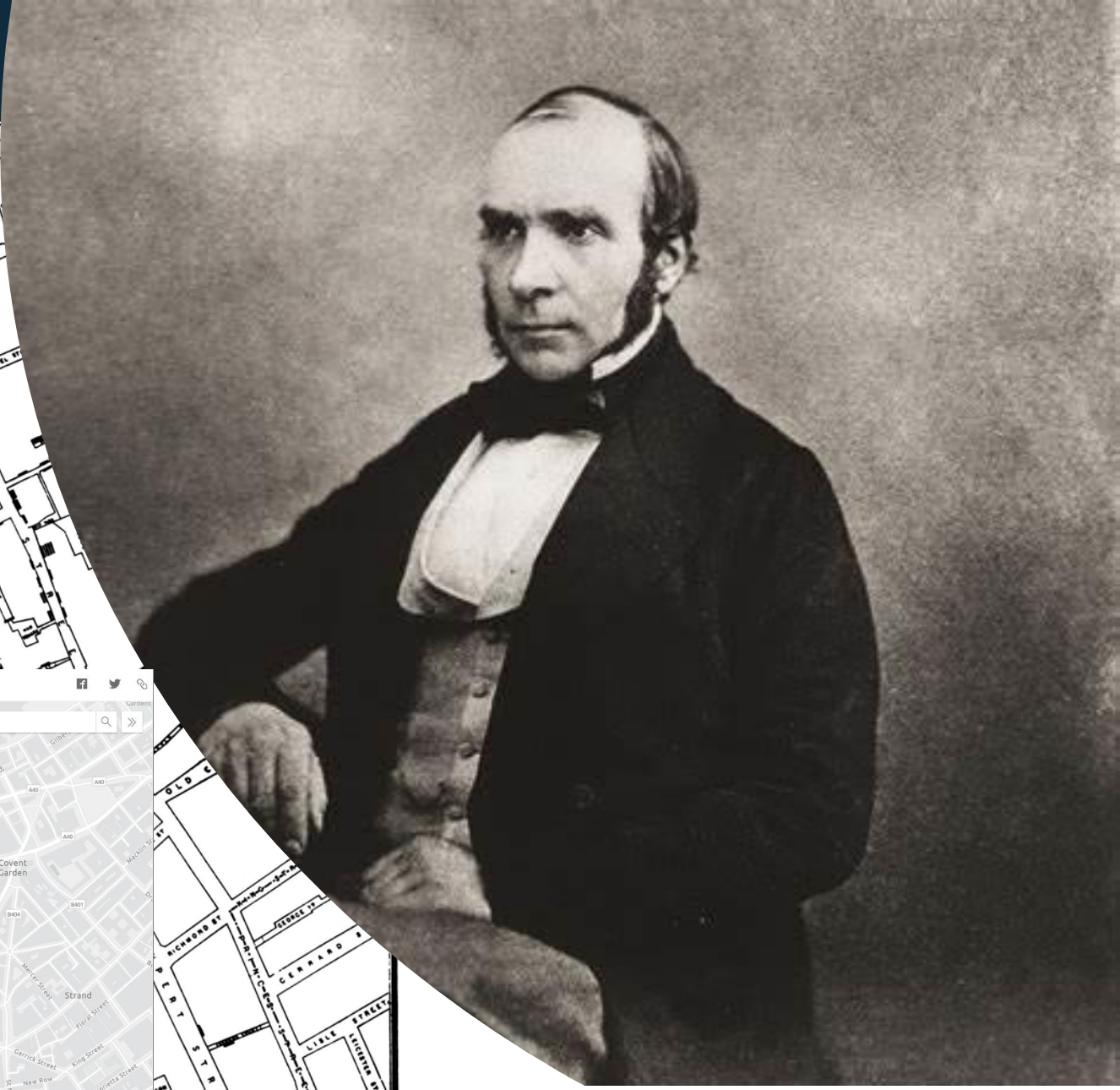
NACCHO
National Association of County & City Health Officials

IAEM
International Association of Emergency Managers

Dr John Snow







https://arcg.is/1y9TGH0 and https://learn.arcgis.com/en/projects/map-a-historic-cholera-outbreak/

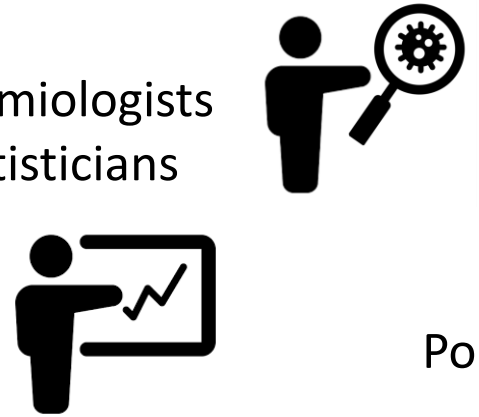
Why?

Propagation and impact of COVID-19 can be best understood in the context of ***space*** and ***time***.

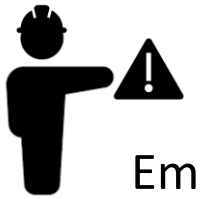
What?

Data made available in different forms to support different groups responding.

Epidemiologists & Statisticians



Policy Makers



Emergency Managers

The Public *Ultimate decision makers*

COVID-19 Tech & GIS After-Action Review

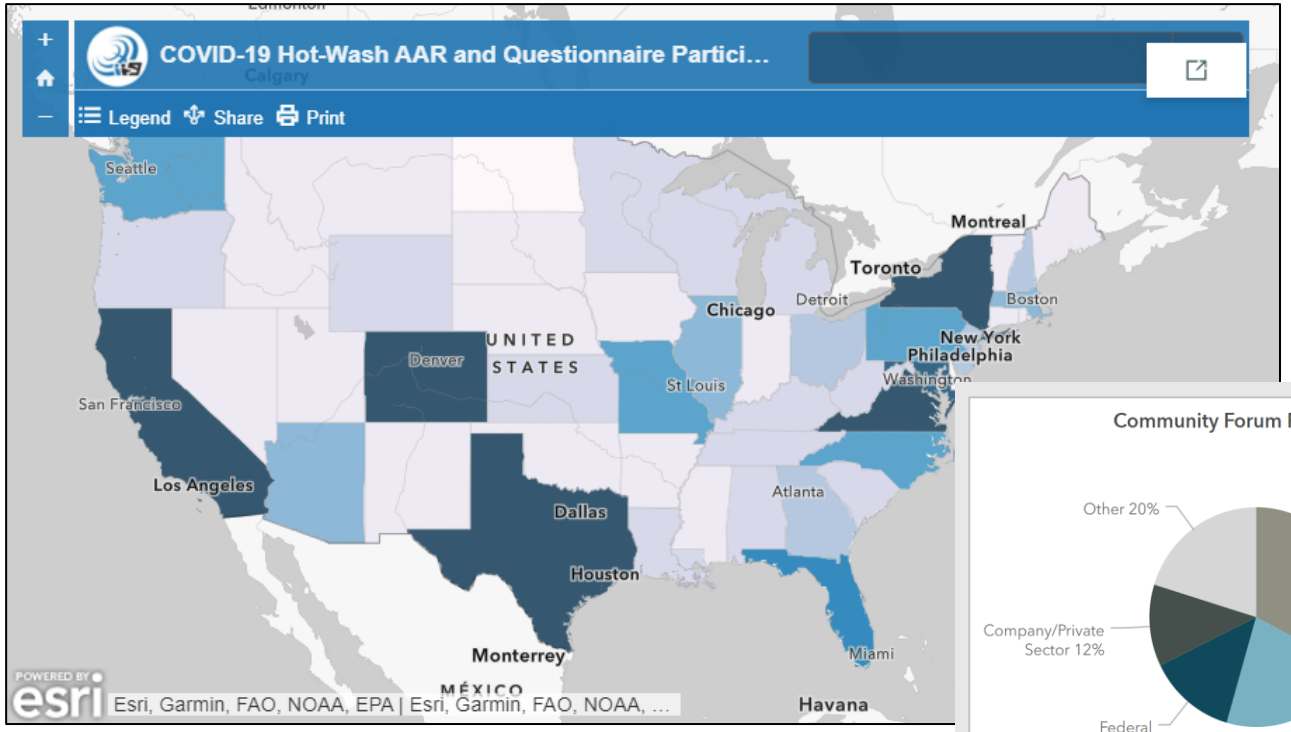
June 2020 — Conduct Virtual Open Community Forum: COVID-19 Tech & GIS Hot Wash Part 1

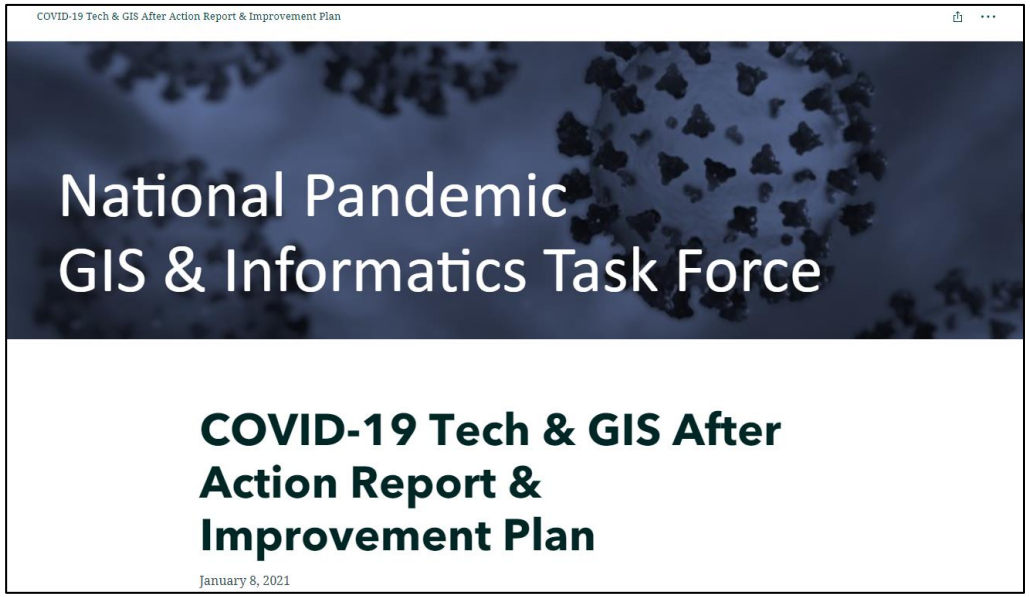
June 2020 — Develop and release a COVID-19 Technology & GIS AAR Questionnaire

August 2020 — Conduct Virtual Open Community Forum: COVID-19 Tech & GIS Hot Wash Part 2

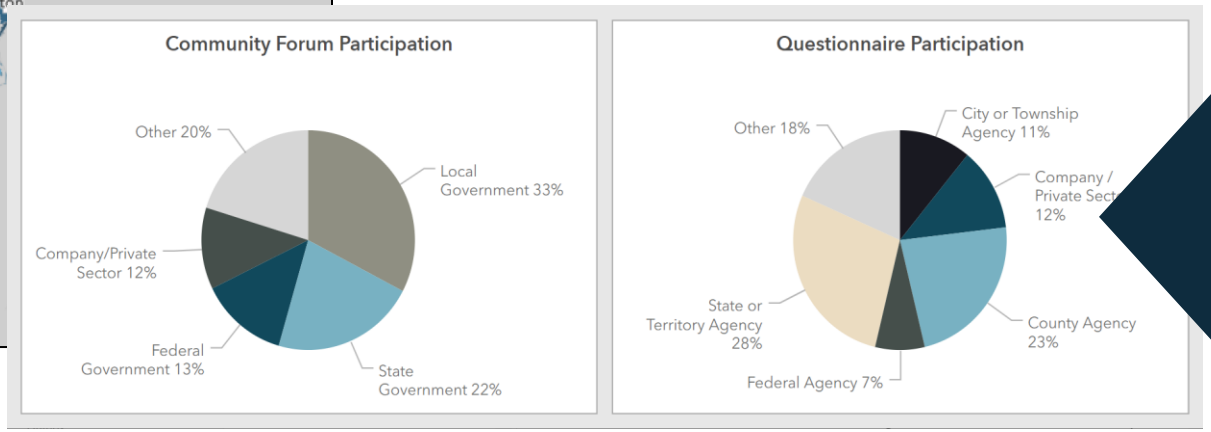
Winter 2020 — Release version 1.0 COVID-19 Technology & GIS AAR and Improvement Plan

Ongoing — Coordinate with Federal Interagency after-action teams on integration of findings



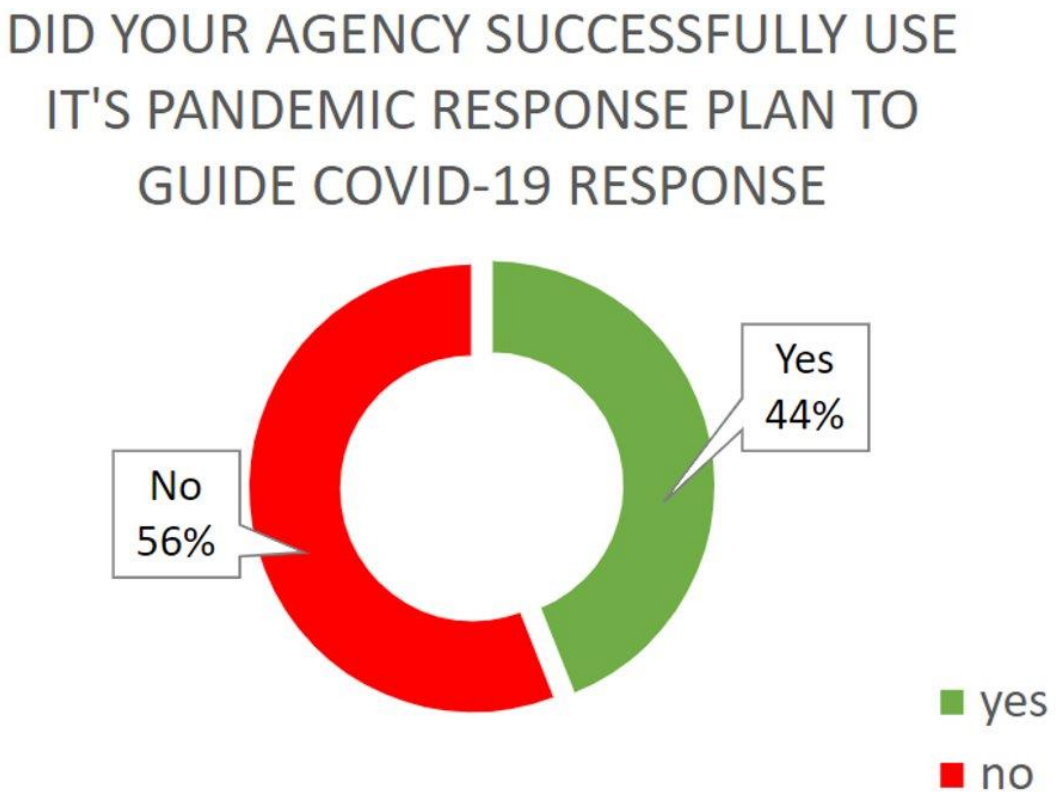


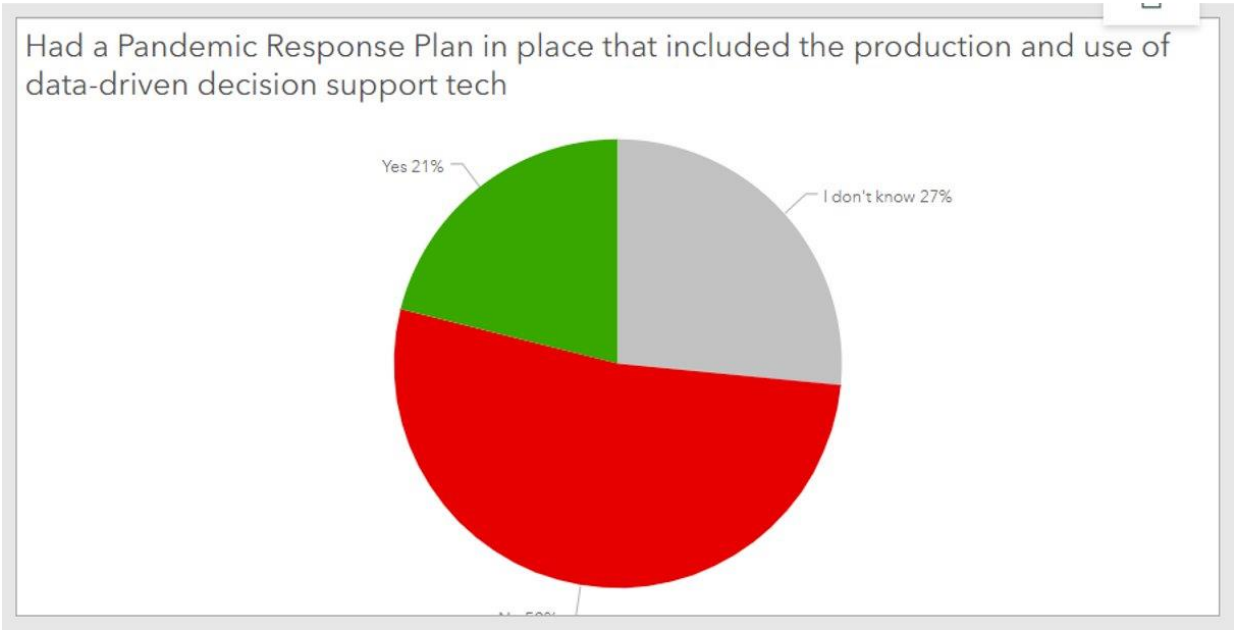
https://arcg.is/14Sau90



Engaged nearly 1,000 stakeholders nationwide

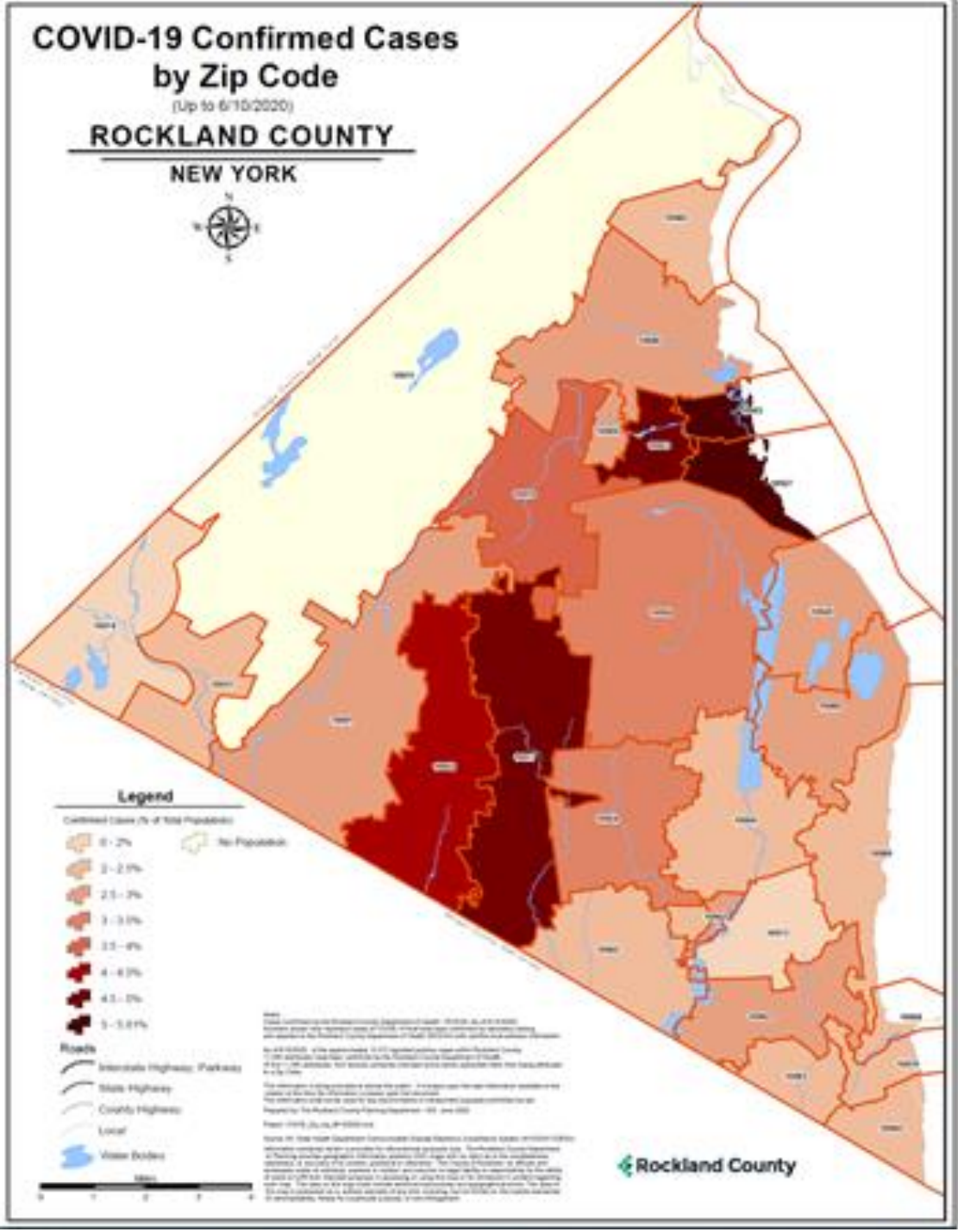
Start with Preparedness Efforts – Pandemic Planning

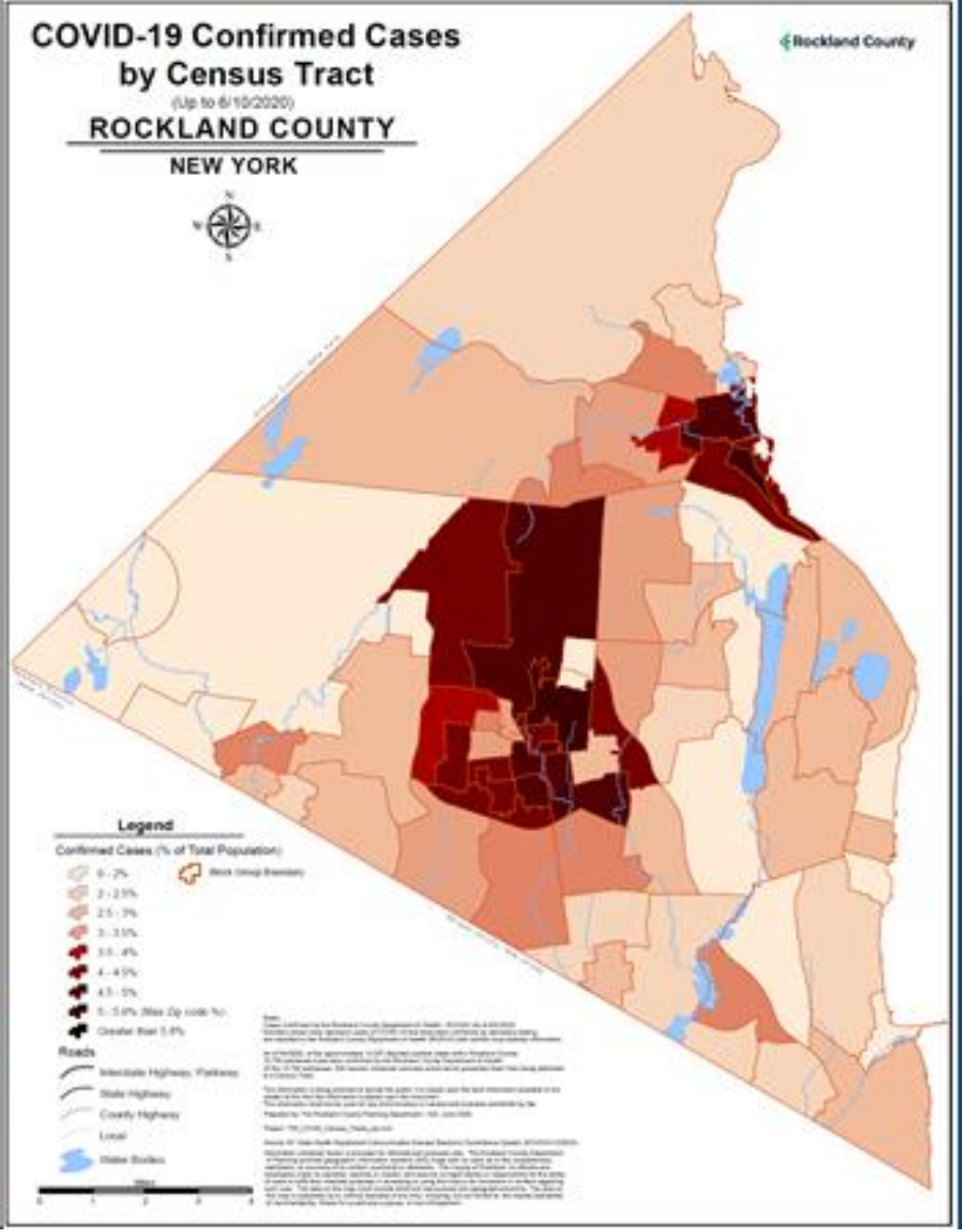


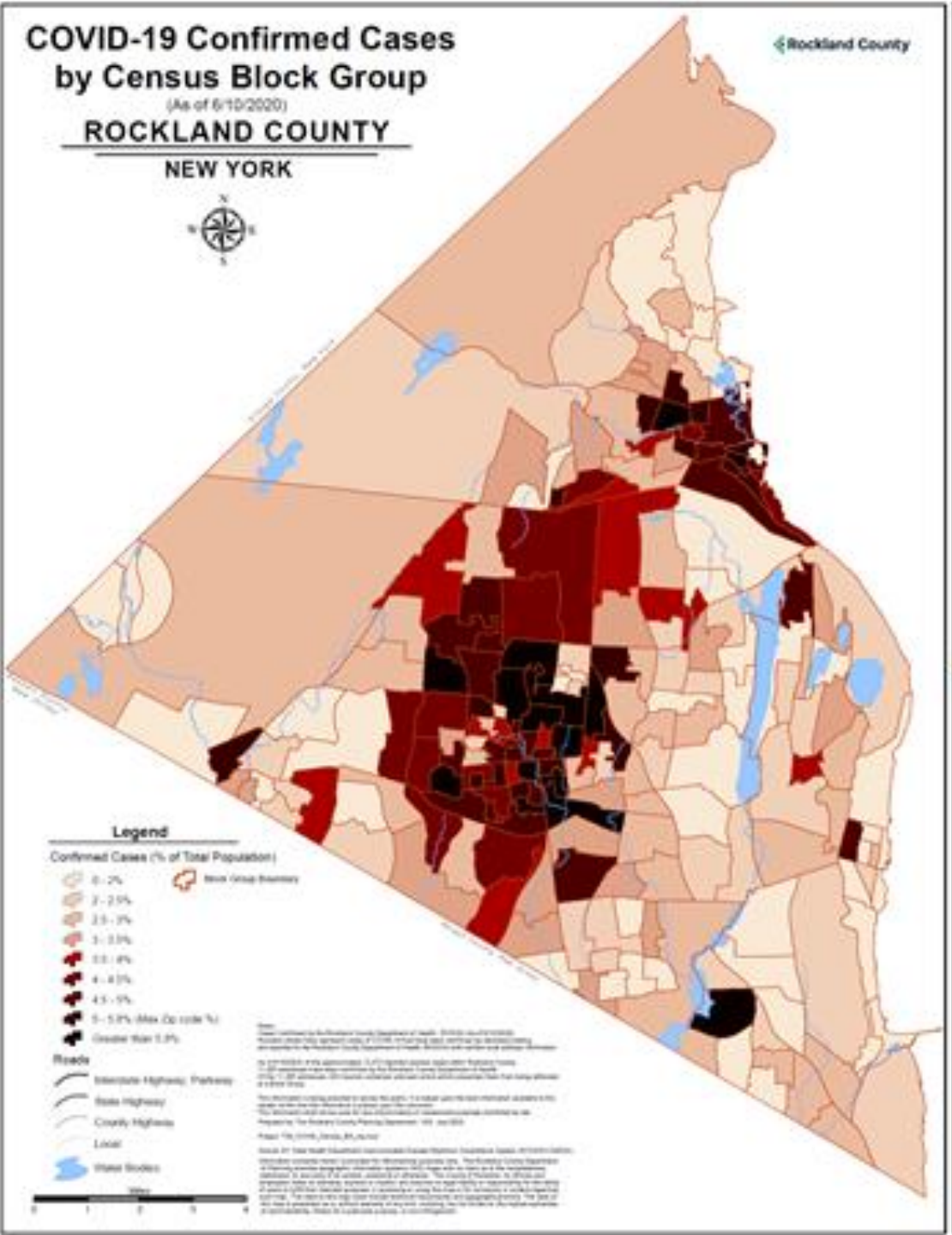


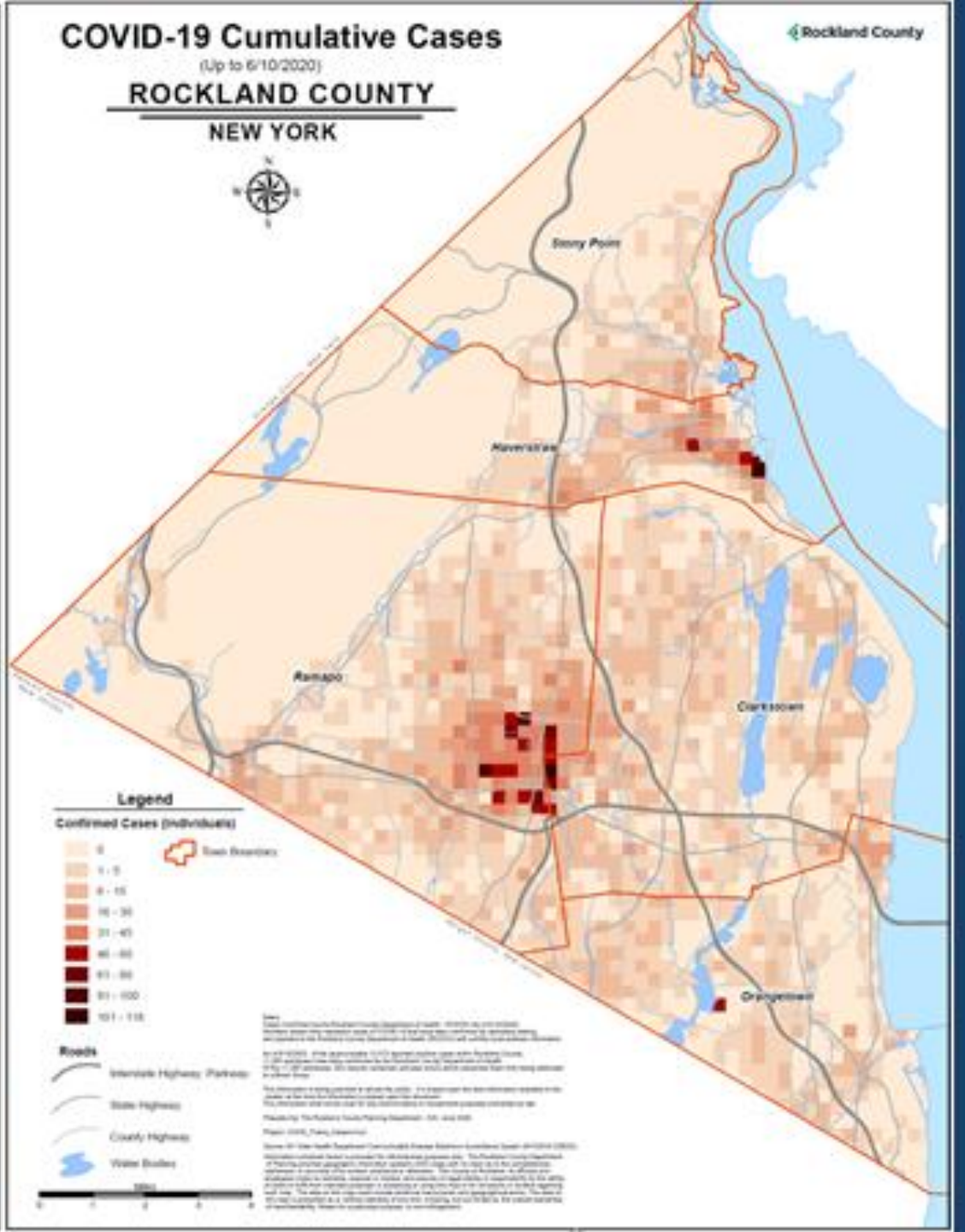
Priority Technology and Data Challenges

Challenge Area	% of Entities Reporting This as a Challenge
Lack of Access to Technology or Licenses	28%
Need to Build Relationships with Technologists/GIS/Data Science	46%
Lack of Trained Staff	46%
Lack of Prior Knowledge About Available Technology Capabilities	54%
Lack of Understanding Models	55%
Restricted Data Access and Sharing	57%
Duplicative Manual Reporting Data Entry	60%
Lack of Reliable Data	70%

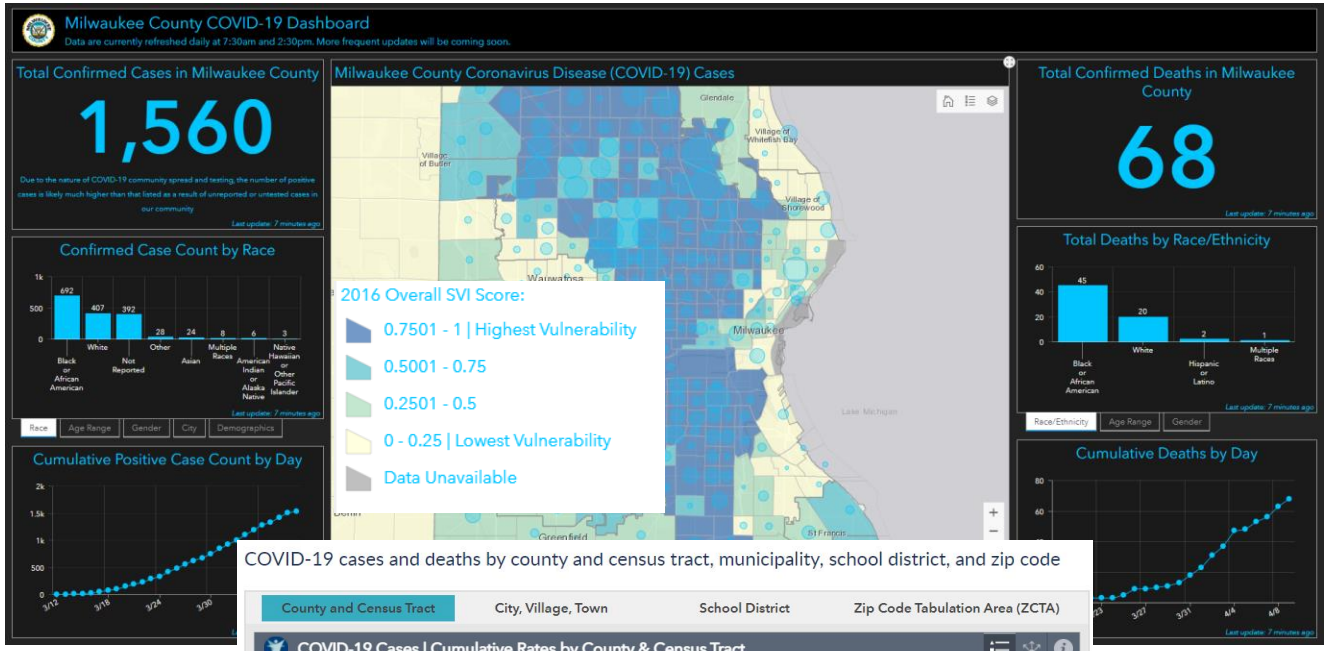

COVID-19 Confirmed Cases
by Zip Code
(Up to 6/10/2020)
ROCKLAND COUNTY
NEW YORK
Legend
Roads
Rockland County

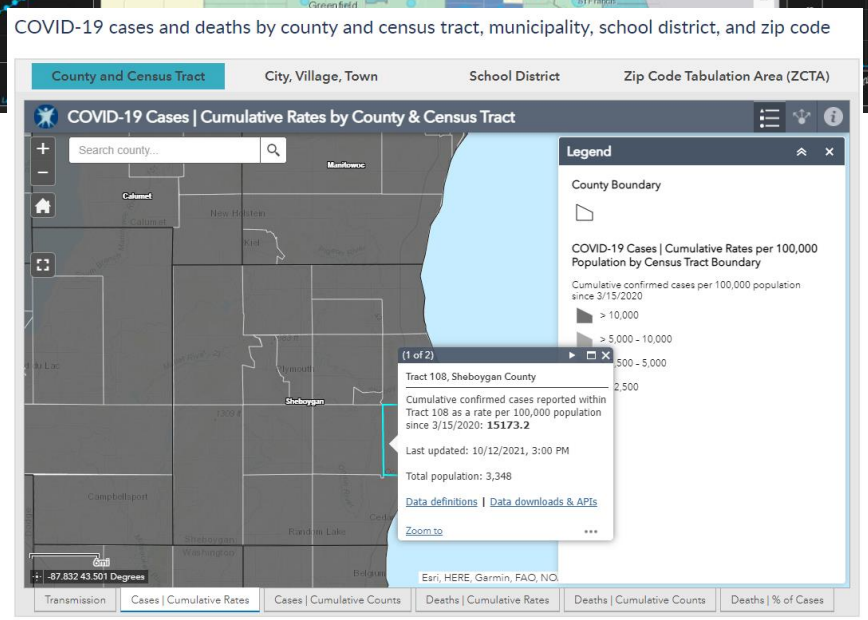

COVID-19 Confirmed Cases
by Census Tract
(Up to 6/10/2020)
ROCKLAND COUNTY
NEW YORK
Rockland County
Legend
Confirmed Cases (% of Total Population)
Roads


COVID-19 Confirmed Cases
by Census Block Group
(As of 6/10/2020)
ROCKLAND COUNTY
NEW YORK
Rockland County
Legend
Confirmed Cases (% of Total Population)
Roads
Interstate Highway, Parkway
State Highway
County Highway
Local
Water Bodies


COVID-19 Cumulative Cases
(Up to 6/10/2020)
ROCKLAND COUNTY
NEW YORK
Rockland County
Stony Point
Haverstraw
Ramapo
Clarkstown
Orangetown
Legend
Confirmed Cases (Individuals)
Roads
Interstate Highway, Parkway
State Highway
County Highway
Water Bodies

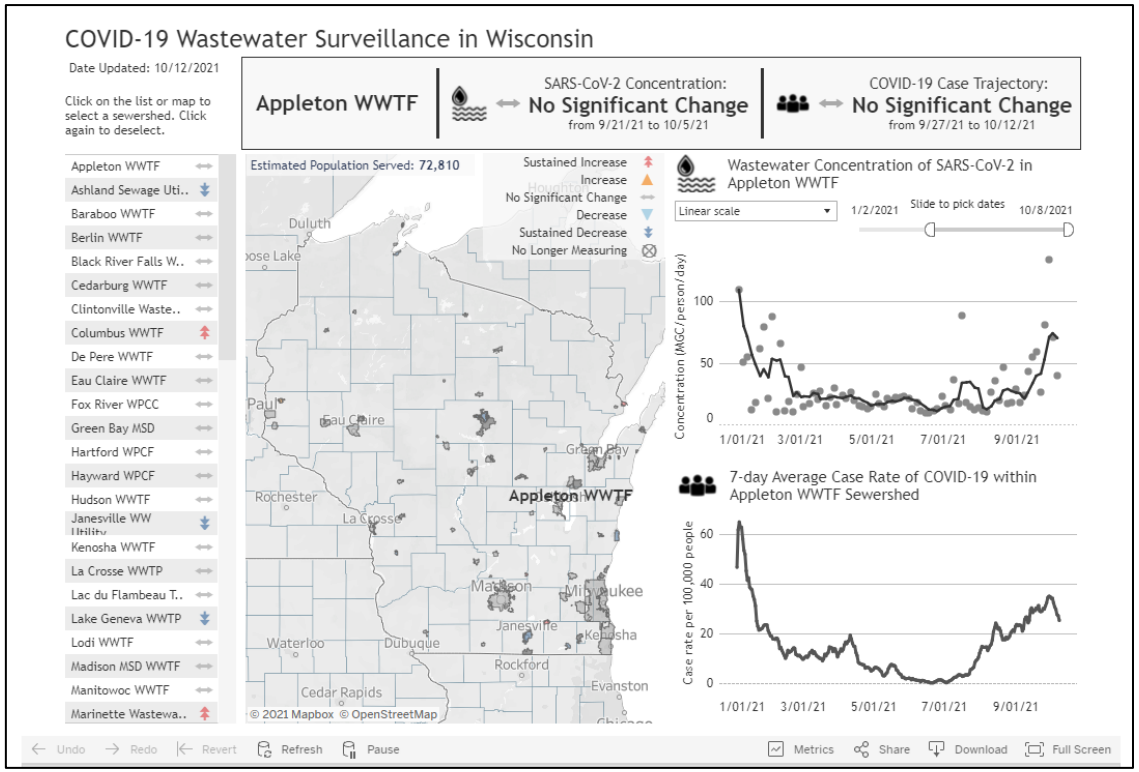
Wisconsin Case Study

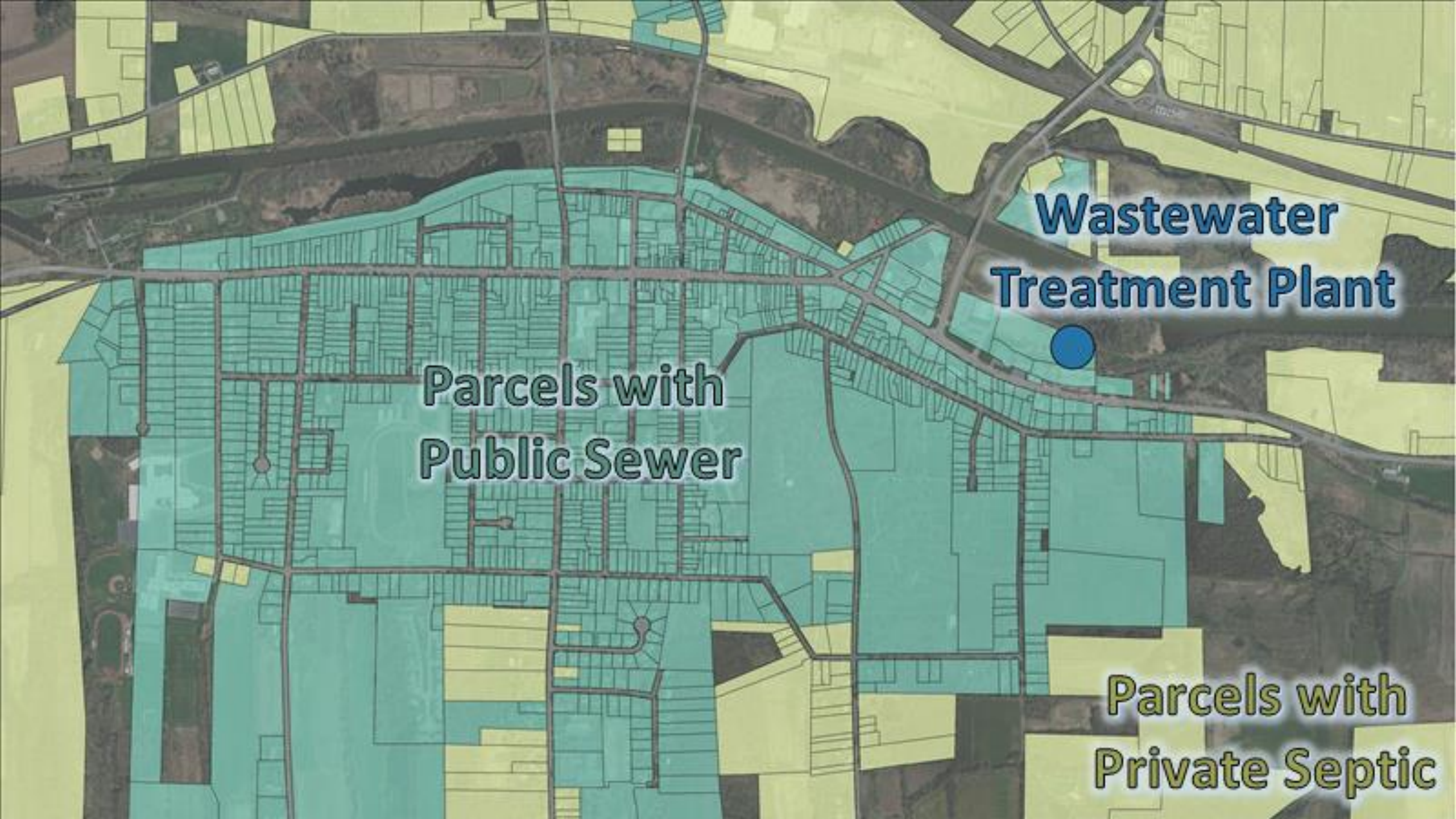




https://www.dhs.wisconsin.gov/covid-19/data.htm#maps

https://www.dhs.wisconsin.gov/covid-19/wastewater.htm#wastewater




Wastewater
Treatment Plant
Parcels with
Public Sewer
Parcels with
Private Septic

Roadmap and Priority Requirements

Task Force 2-year Roadmap

Current Task Force Deliverables	• Playbook is completed, disseminated, and in widespread use. • Funding is secured to enable completion of Phase 2 of the COVID-19 AAR (post-vaccine availability and distribution).
Task Force Capacity & Expertise	• Task Force leadership is engaged, diverse, and robust. • ASTHO and NACCHO formally and actively engaged. • Increased representation by emergency and incident management.
Data and Modeling Standards and Best Practices	• Phase 2 of the AAR is complete, distributed, and informing decision making. • Guidance is developed by the TF on meaningful anonymous data.
Policy Advocacy for Accurate, Accessible Data and Privacy	• TF has published and presented policy position paper(s) to encourage integration and standardization of data for pandemic preparedness and response.
Education and Outreach	• Outreach and communications plan is developed and being implemented. • A web portal/resource hub is in use to capture and share lessons learned and best practices.

Priority Requirements

01

National Pandemic GIS & Technology Playbook

- Build out the playbook
- Integrate with national and international pandemic playbooks
- Educate and promulgate adoption and use across the FSLTT nationwide

02

Meaningful Anonymous Data – *Develop and Promote Guidance for Safe Data Aggregation*

- Enable necessary data granularity to drive accurate decision making
- Protecting privacy and comply with HIPPA

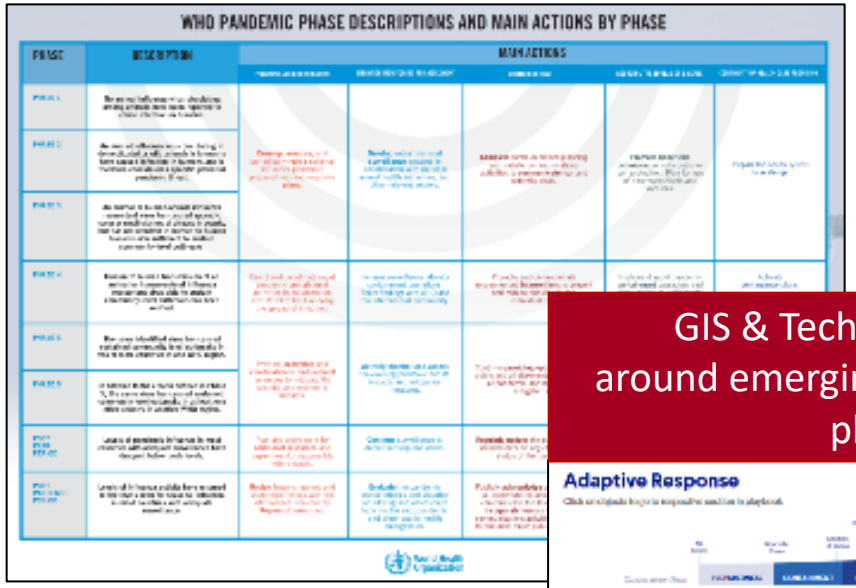
03

National Data Needs for Pandemic Preparedness

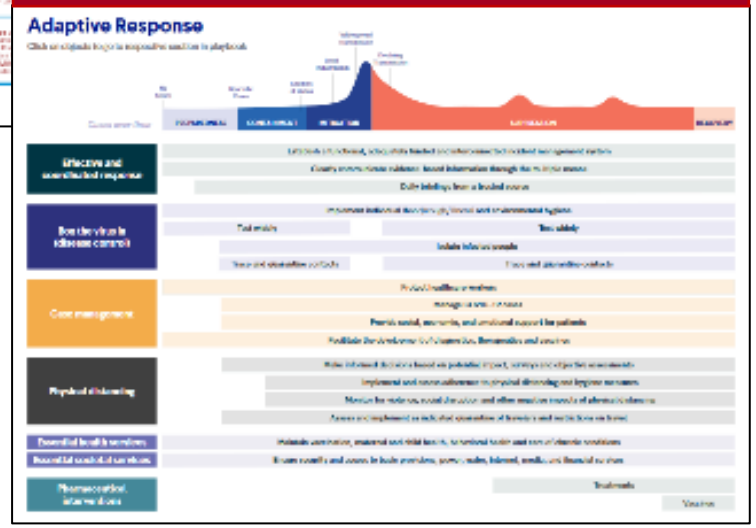
- National Address Database
- Parcel Data

National Playbook Overview

Develop and promote use of a standardized National Playbook for Integrating Technology & GIS in Pandemic Response & Recovery.



GIS & Tech Playbook framed around emerging pandemic response playbooks



- Pandemic Activity
- Key Questions & Decisions
- Information Needs
- GIS/Data/Tech Activities
- Tools, Resources, and Best Practices

Asks of NGAC

01

Help Shape the future of the Task Force

- Identify proper placement
- Identify partnership and funding opportunities
- Expand and amplify the playbook message
- Do we spatially enable someone else's work? How do we fit?

02

Assist with data governance and availability

- Strategy for secure data aggregation
- HIPPA → Anonymous meaningful data

03

Add pandemic to existing use cases for NSDI

- National Address Database
- Parcel Data

(Common requirements also needed for most disasters)

Discussion with NGAC

Which of the 3 priority requirements best align with your agency or organization?

How can we partner with you to move one of these priority needs and requirements forward?

Thank You!

- Frank Winters – frank.winters@its.ny.gov
- Tommy Hicks – thicks@publicsafetygis.org
- Rebecca Harned – HarnedR@4arrowsinc.com

- More Information about the Pandemic GIS Task Force: https://www.napsgfoundation.org/pandemic-gis-task-force/

Original Artwork by
Tom Fraser
NYS GPO